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(21) International Application Number: PCT/CA98/01059 (22, International Filing Date: 12 November 1998 (12.11.98) (30) Priority Data: 2,220,805 12 November 1997 (12.11.97) CA 2,230,991 11 May 1998 (11.05.98) CA (71) Applicant (for all designated States except US): MCGILL UNIVERSITY [CA/CA]; 845 Sherbrooke Street West, Montréal, Québec H3A 2T5 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): SZYF, Moshe [CA/CA]; 7522 Wavell, Côte Saint-Luc, Québec H4W 2L7 (CA). BHATTACHARYA, Sanjoy [IN/CA]; Apartment 1403, 2150 Mackay Street, Montréal, Québec H3G 2M2 (CA). RAMCHANDANI, Shyam [CA/CA]; 5843 Hillcrest Crescent, Niagara Falls, Ontario L2J 2A8 (CA). (74) Agents: CÔTÉ, France et al.; Swabey Ogilvy Renault, Suite 1600, 1981 McGill College Avenue, Montréal, Québec H3A 2Y3 (CA).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: DNA DEMETHYLASE, THERAPEUTIC AND DIAGNOSTIC USES THEREOF (57) Abstract <p>The present invention relates to a DNA demethylase enzyme having about 40 KDa, and wherein said DNA demethylase enzyme is overexpressed in cancer cells and not in normal cells. The present invention also relates to the therapeutic and diagnostic uses of the DNA demethylase.</p>		